# Cytec CC-1191 (Conap) Acrylic Dielectric Conformal Coating

**Category :** Polymer , Adhesive , Thermoset , Acrylic/Cyanoacrylate Adhesive

**Material Notes:**

Dielectric Conformal Coatings for ElectronicsCytec dielectric conformal coatings are the most widely used conformal coatings in industry today for such divergent applications as aircraft avionics, instrumentation (industrial and military), missiles, spacecraft, fire and smoke detectors as well as coatings for electronic components, coils and transformers. And no small reason why -- all of the coatings described have been specifically formulated as dielectric insulating coatings to provide the user the ultimate protection available for his electronic assemblies; be it environmental (dirt, dust, humidity, fungus, temperature extremes, etc) or electrical insulation of conductors. These coatings are not designed for use as floor coatings or other general purpose uses; they have been produced under essentially "clean-room" conditions using raw materials with a minimum of ionizable impurities which would detract from their insulating qualities.Cytec (Conap) CC-1191 Acrylic Dielectric Conformal CoatingSingle ComponentPasses Thermal Shock Test (MIL-I-46058C)Non-Nutrient Fungus Resistance (MIL-I-46058C)Passes Flexibility Test (1/8" Mandrel Bend) (MIL-I-46058C)Poor Chemical and Solvent ResistanceSolvent Evaporation Cure Cure Type: Solvent Evaporation

Order this product through the following link:
http://www.lookpolymers.com/polymer_Cytec-CC-1191-Conap-Acrylic-Dielectric-Conformal-Coating.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Solids Content | 30 % | 30 % | |
| Viscosity | 850 cP<br>@Temperature 25.0 °C | 850 cP<br>@Temperature 77.0 °F | |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| Maximum Service Temperature, Air | 54.4 °C | 130 °F | |
| Minimum Service Temperature, Air | -53.9 °C | -65.0 °F | |
| Flash Point | 18.3 °C | 65.0 °F | (TCC) |

| Electrical Properties | Metric | English | Comments |
|---|---|---|---|
| Electrical Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | Insulation Resistance; Recovery, 24 hrs after 10-day Cycling (25°C, 50% Relative Humidity) |
| | 1.50e+16 ohm-cm | 1.50e+16 ohm-cm | Initial Insulation Resistance (50% Relative Humidity) |
| | 2.50e+12 ohm-cm<br>@Temperature 65.0 °C | 2.50e+12 ohm-cm<br>@Temperature 149 °F | Insulation Resistance During 10th day Cycling (95% Relative Humidity) |
| Dielectric Constant | 3.15 | 3.15 | ASTM D150 |
| Dielectric Strength | 118 kV/mm | 3000 kV/in | ASTM D149 |

| Electrical Properties | Metric | English | Comments |
|---|---|---|---|
| Dissipation Factor | 0.010 | 0.010 | ASTM D150 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |

| Processing Properties | Metric | English | Comments |
|---|---|---|---|
| Cure Time | 20.0 min<br>@Temperature 25.0 °C | 0.333 hour<br>@Temperature 77.0 °F | tack free |
| | 60.0 min<br>@Temperature 60.0 °C | 1.00 hour<br>@Temperature 140 °F | |
| | 1440 min<br>@Temperature 25.0 °C | 24.0 hour<br>@Temperature 77.0 °F | |
| Shelf Life | 12.0 Month | 12.0 Month | Shelf Life Time at 25°C in original, unopened containers. |

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